Name		Period
Table 1		
	Trial 1 - metal	Trial 2 – rubber stopper
Mass of object	That I mean	That 2 – Tubber Stopper
Mass of cup		
Mass of cup + water		
Temperature of tap water in the		
cup		
Max temperature of hot water		
Maximum temperature of water + cup + object		
Skill 38.01 problem 1		
a. Convert 200. cal to joules		
b. Convert 587 kJ to calories		
Skill 38.02 Problem 1		
Which substance in table 1 require	es the most energy to heat?	How do you know?
When substance in table 1 requir	es the most energy to heat.	110W do you know.
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Skill 38.03 Problem 1 Calculate the energy lost by the m	netal object for each trial.	

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Name	Period
Skill 38.04 Problem 1	
A 22.0 g piece of metal was heated to 100°C in a beaker of boiling water. The hot piece of	
placed in 100 g of water at 25°C. The metal and the water reached thermal equilibrium at 2	8°C. What is
the specific heat of the metal?	
Skill 38.04 Problem 2	
(a) Calculate the specific heat of the metal for both trials.	
(b) Average the specific heats for the two trials.	
(c) Report this value to your instructor.	

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